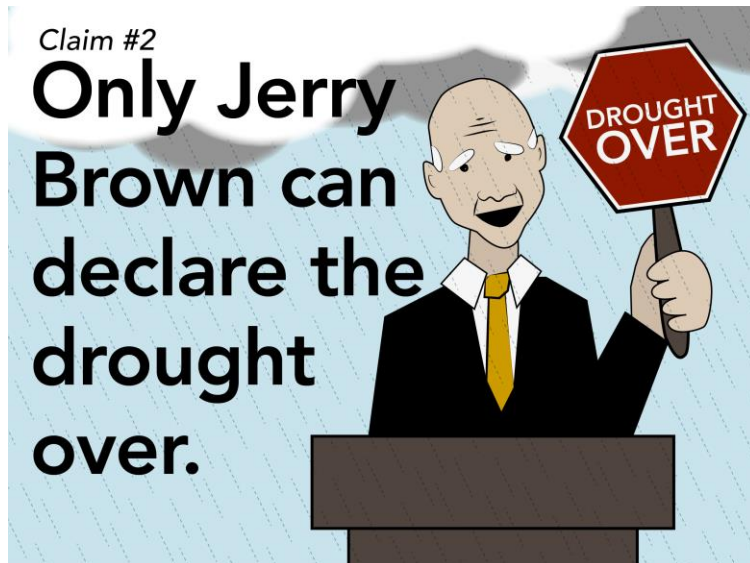
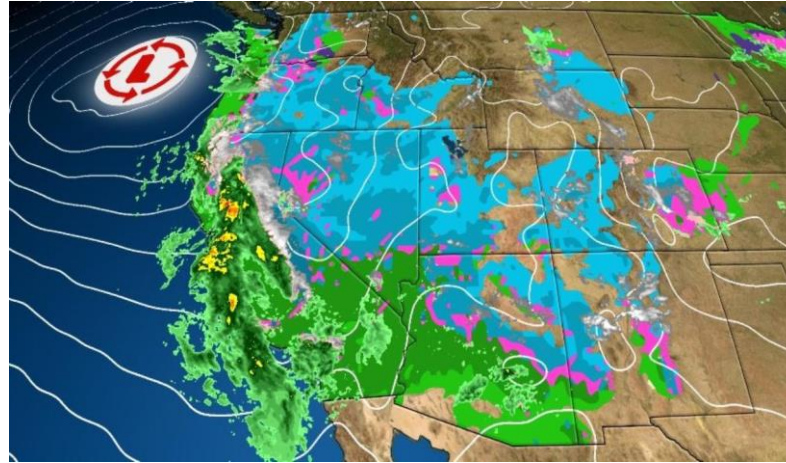




WATER SUPPLY CONDITIONS

Kevin Hostert, Water Resources Analyst
Municipal Water District of Orange County

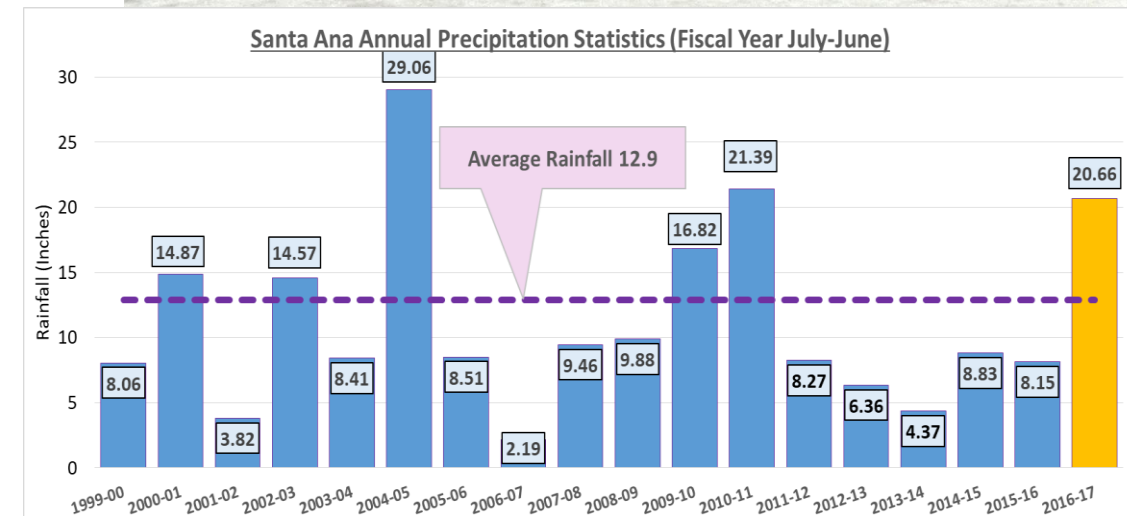
Water Year 2016-17 Recap



Southern California 16-17



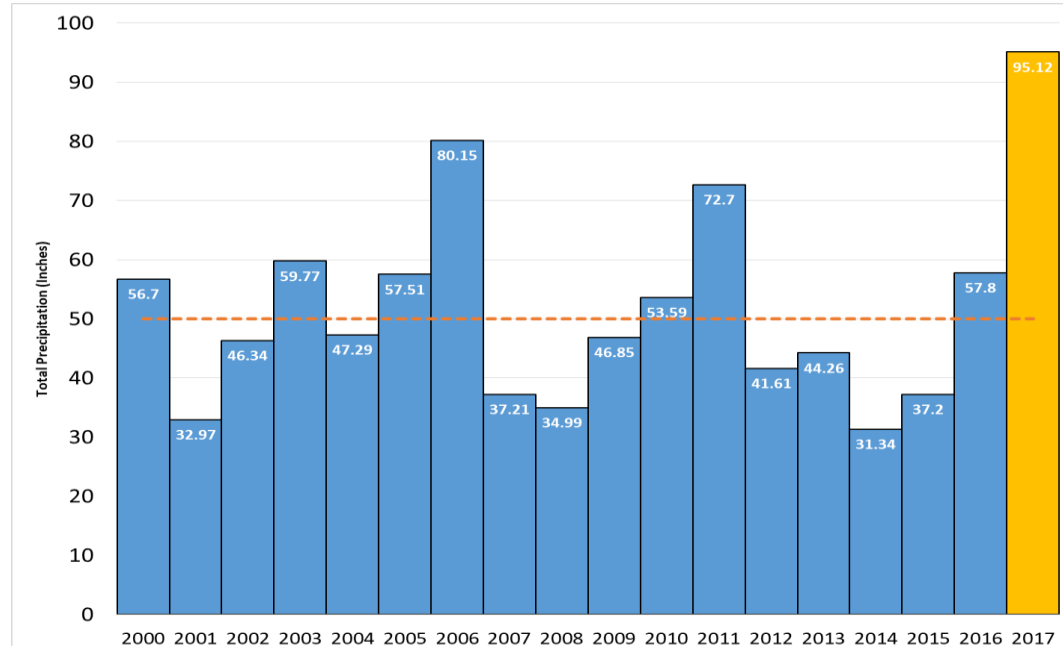
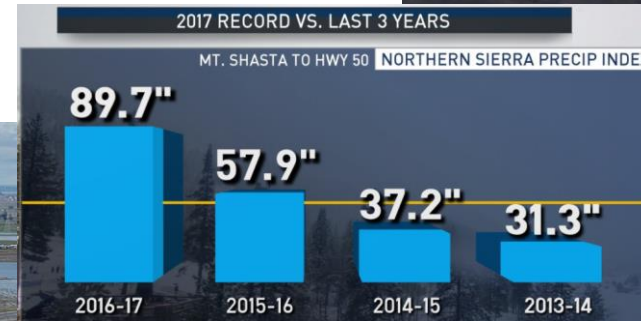
- Santa Ana recorded 20.66 inches of rainfall.
- 160% of the normal rainfall, which is 12.9 inches.
- Above average rainfall but not a record setting year.
- 12th wettest year out of 109 years of record keeping.



Northern California 16-17



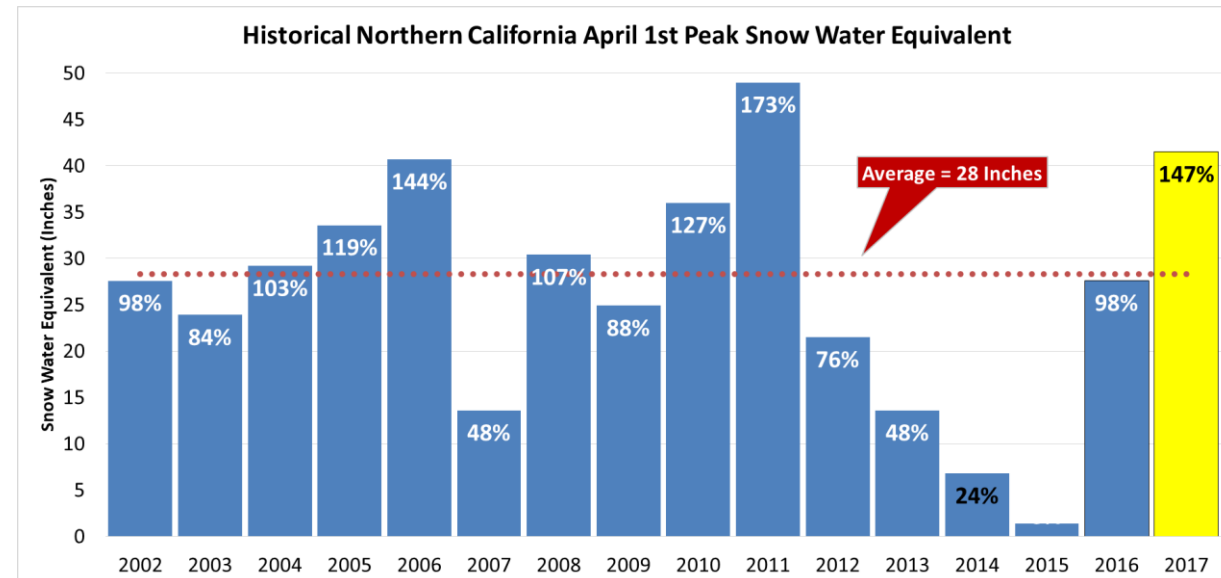
- 8 Station Index recorded 95.12 inches of rainfall.
- 190% of the normal rainfall, which is 50 inches.
- Wettest year out of 97 years of record keeping.



Sierra Nevada Snowfall 16-17



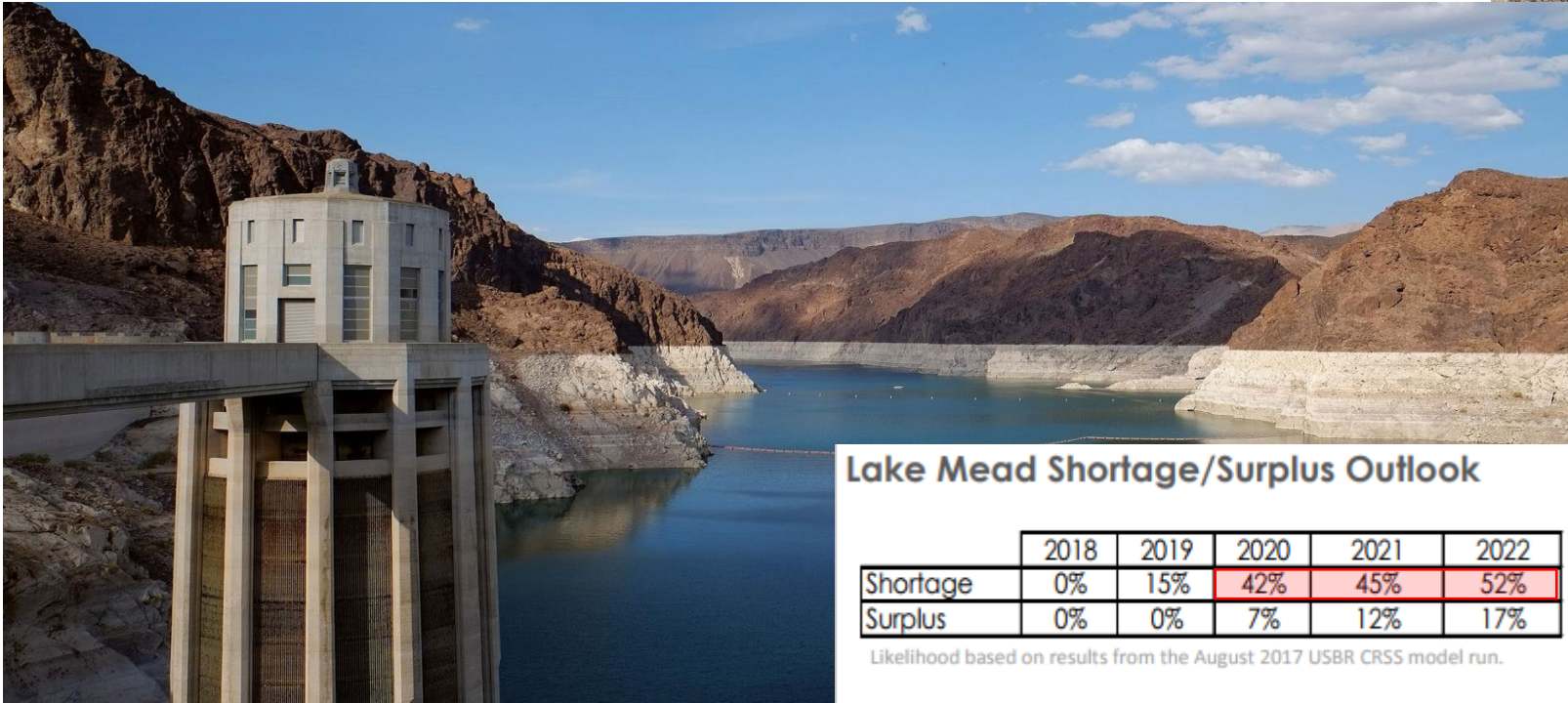
- Northern Sierra SWE = 148% of Normal.
- Central Sierra SWE = 173% of Normal.
- Southern Sierra SWE = 163% of Normal.
- 2nd highest SWE in Sierra since 2002 WY.



Colorado River Basin 16-17



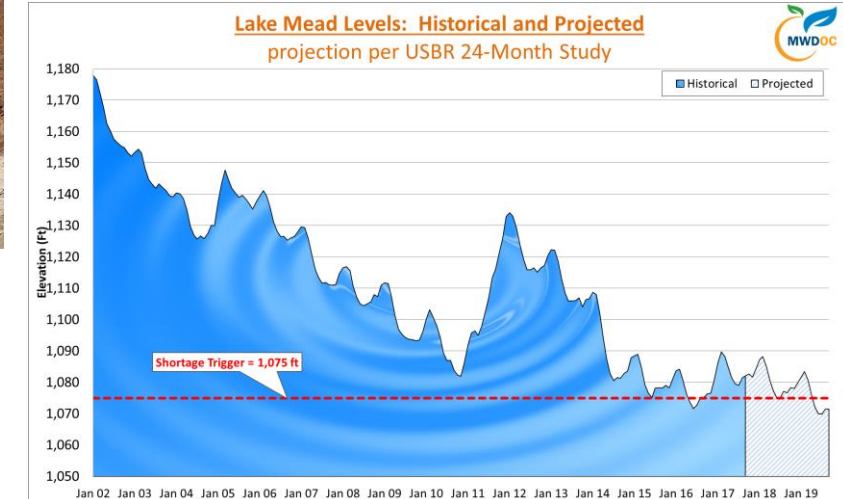
- Colorado Basin SWE = 108% of Normal.
- Colorado Basin Precipitation = 112% of Normal.
- Lake Mead elevation peaked in January 2017 @ 1,090 ft.
- Current Lake Mead level is @ 1,082 ft.
- No expected shortage trigger in the next two years.
- 42% chance of shortage by Jan 2020.



Lake Mead Shortage/Surplus Outlook

	2018	2019	2020	2021	2022
Shortage	0%	15%	42%	45%	52%
Surplus	0%	0%	7%	12%	17%

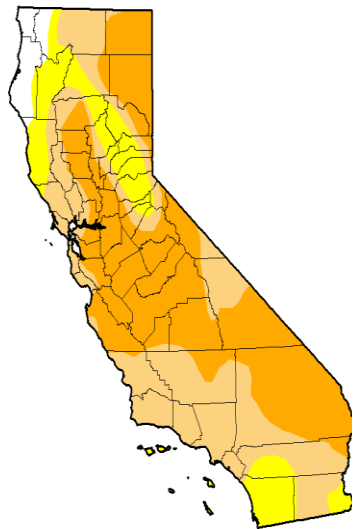
Likelihood based on results from the August 2017 USBR CRSS model run.



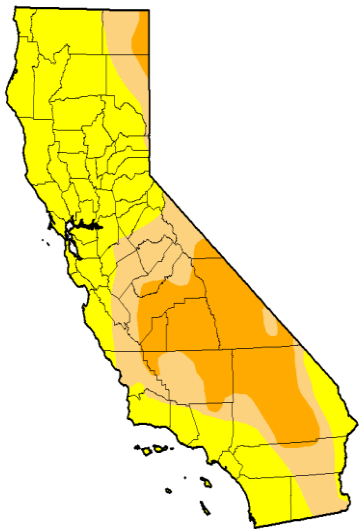
End of the Great California Drought



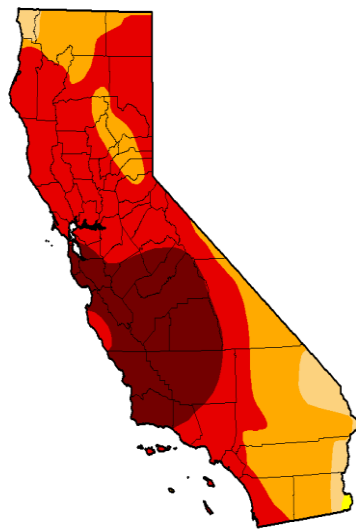
April 2012



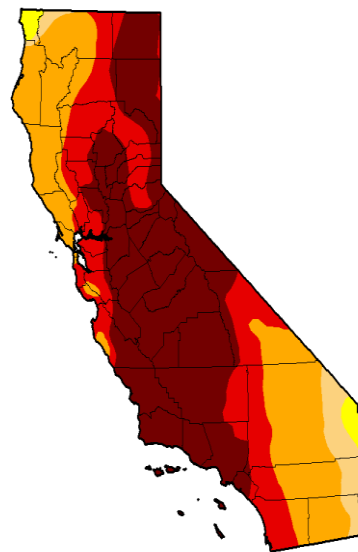
April 2013



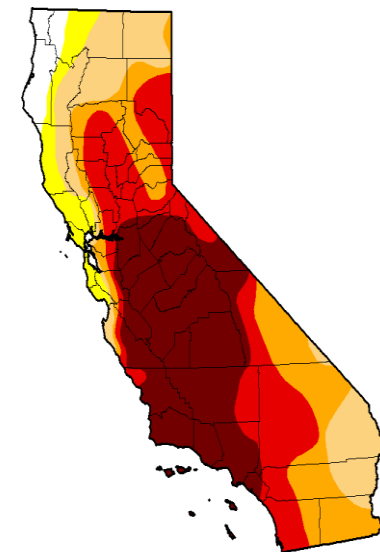
April 2014



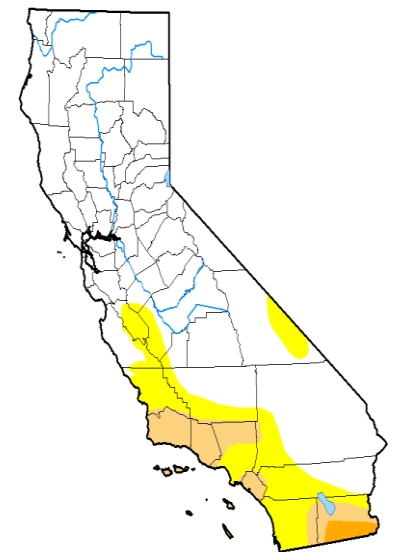
April 2015



April 2016



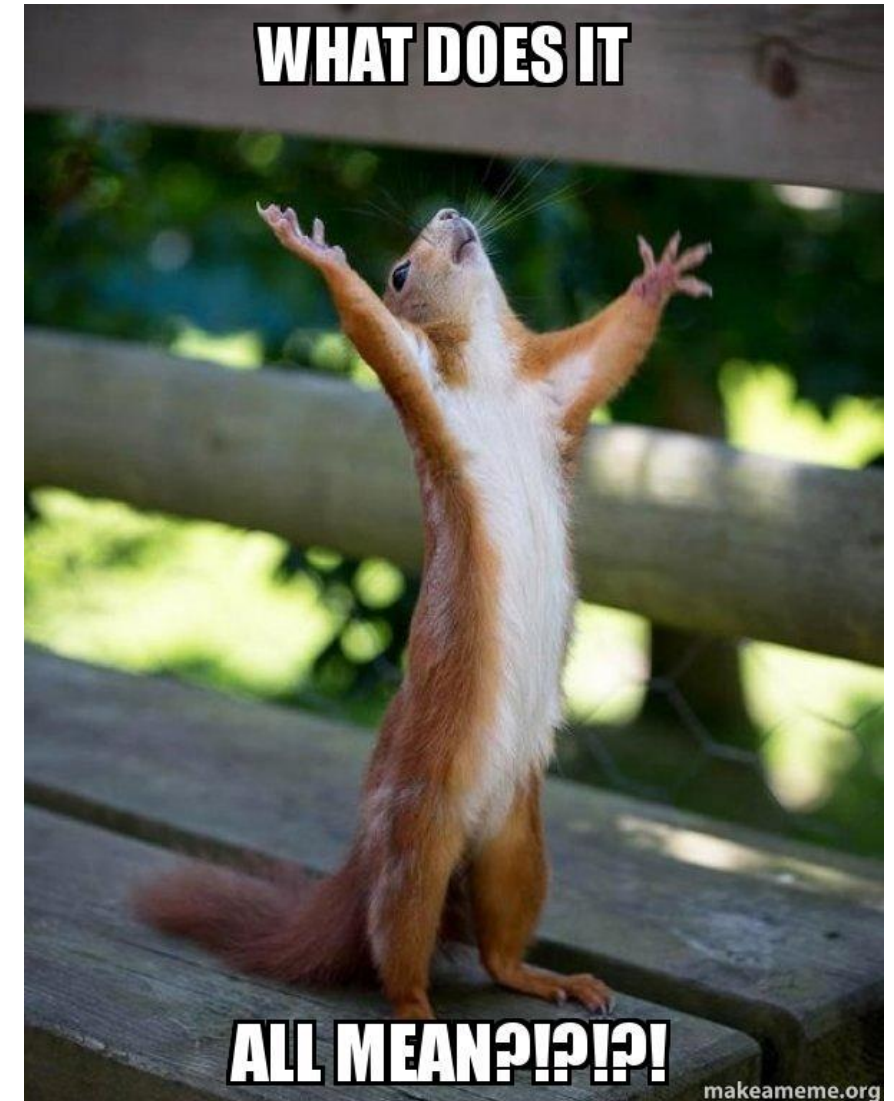
April 2017



What does this all Mean????



With the hefty amounts of water in Northern California MWD has opportunities to store vast amounts of water and prepare for California's next Great Drought.

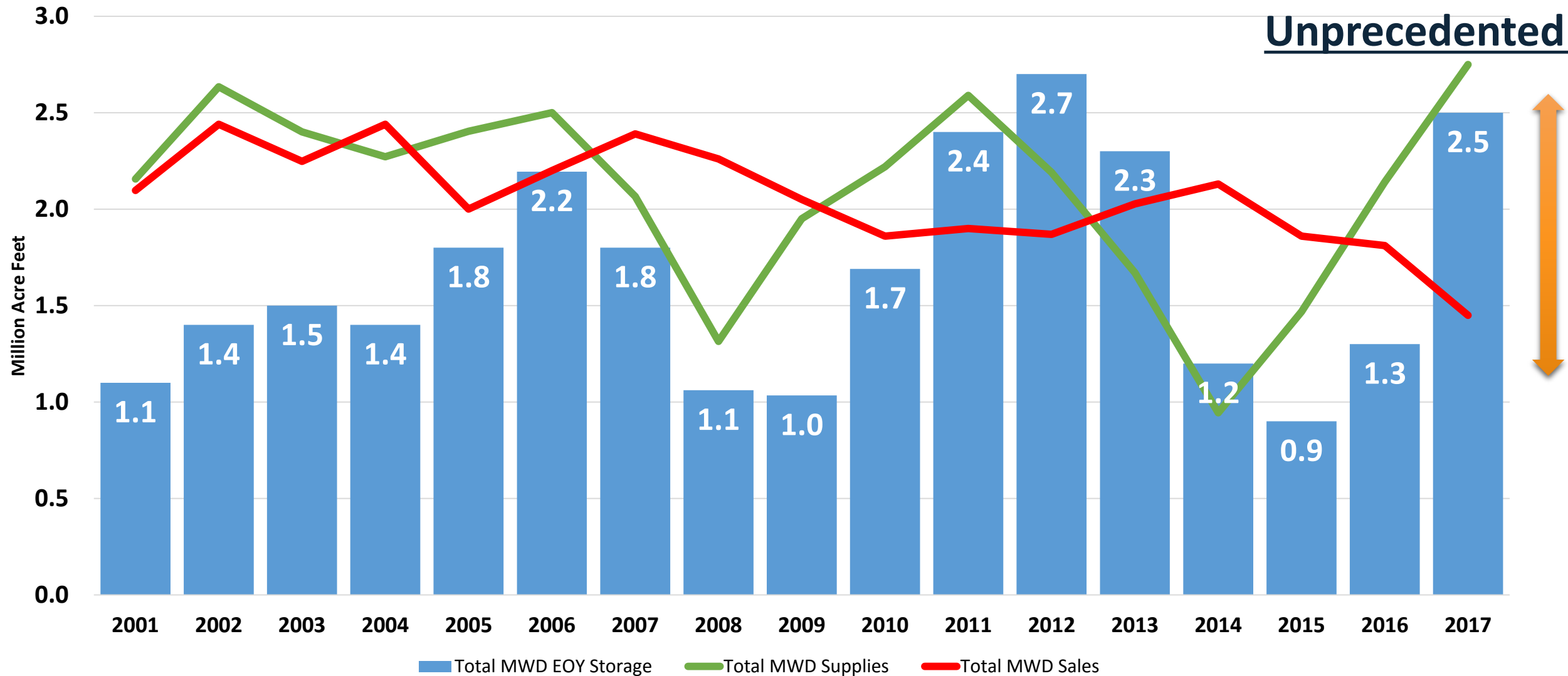


MWD Storage Levels

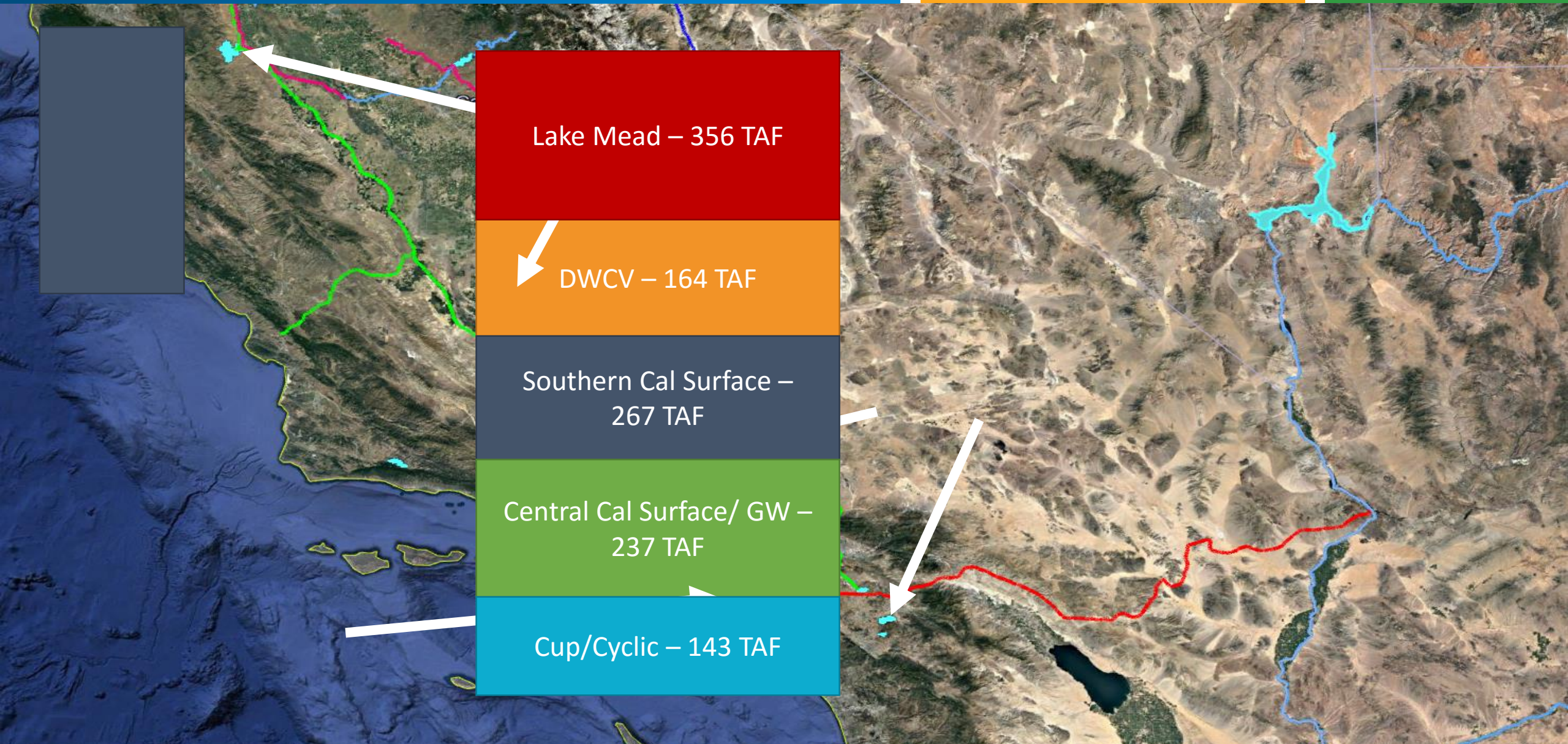


MWD Historical Demand VS Supplies

Unprecedented



MWD Storage Levels Changes



Lake Mead – 356 TAF

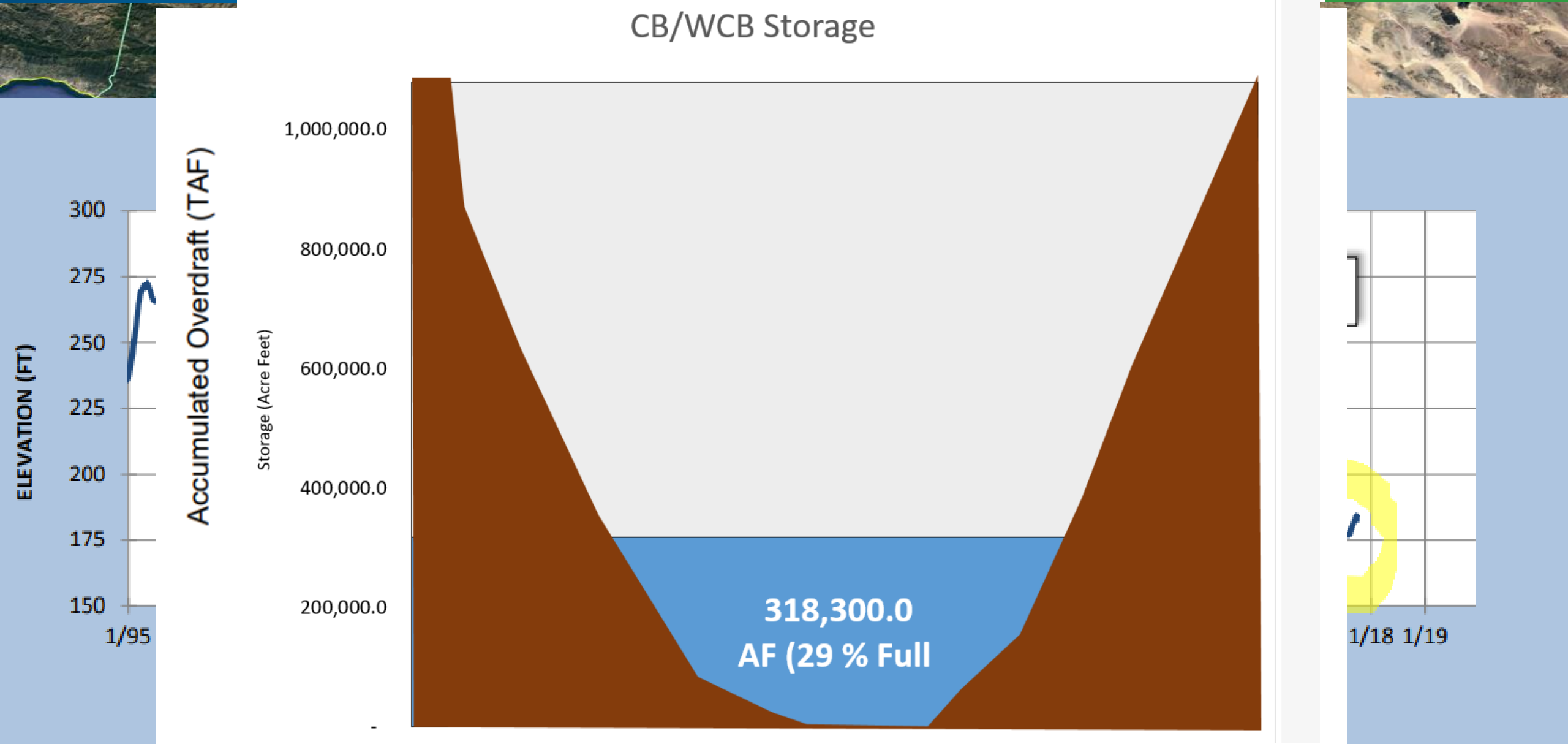
DWCV – 164 TAF

Southern Cal Surface –
267 TAF

Central Cal Surface/ GW –
237 TAF

Cup/Cyclic – 143 TAF

Local Water Supplies

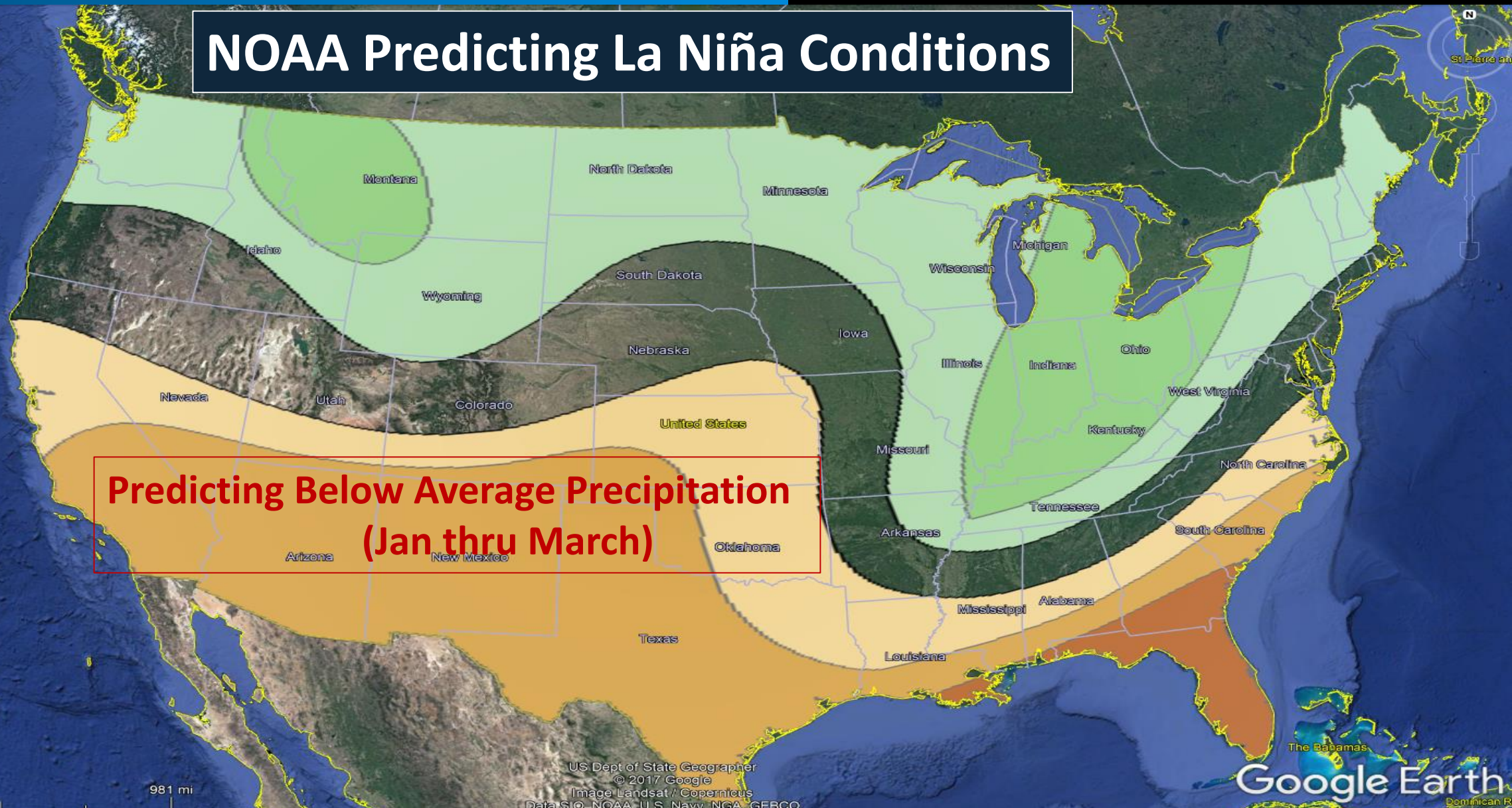


What's Ahead for 2018???



NOAA Predicting La Niña Conditions

**Predicting Below Average Precipitation
(Jan thru March)**



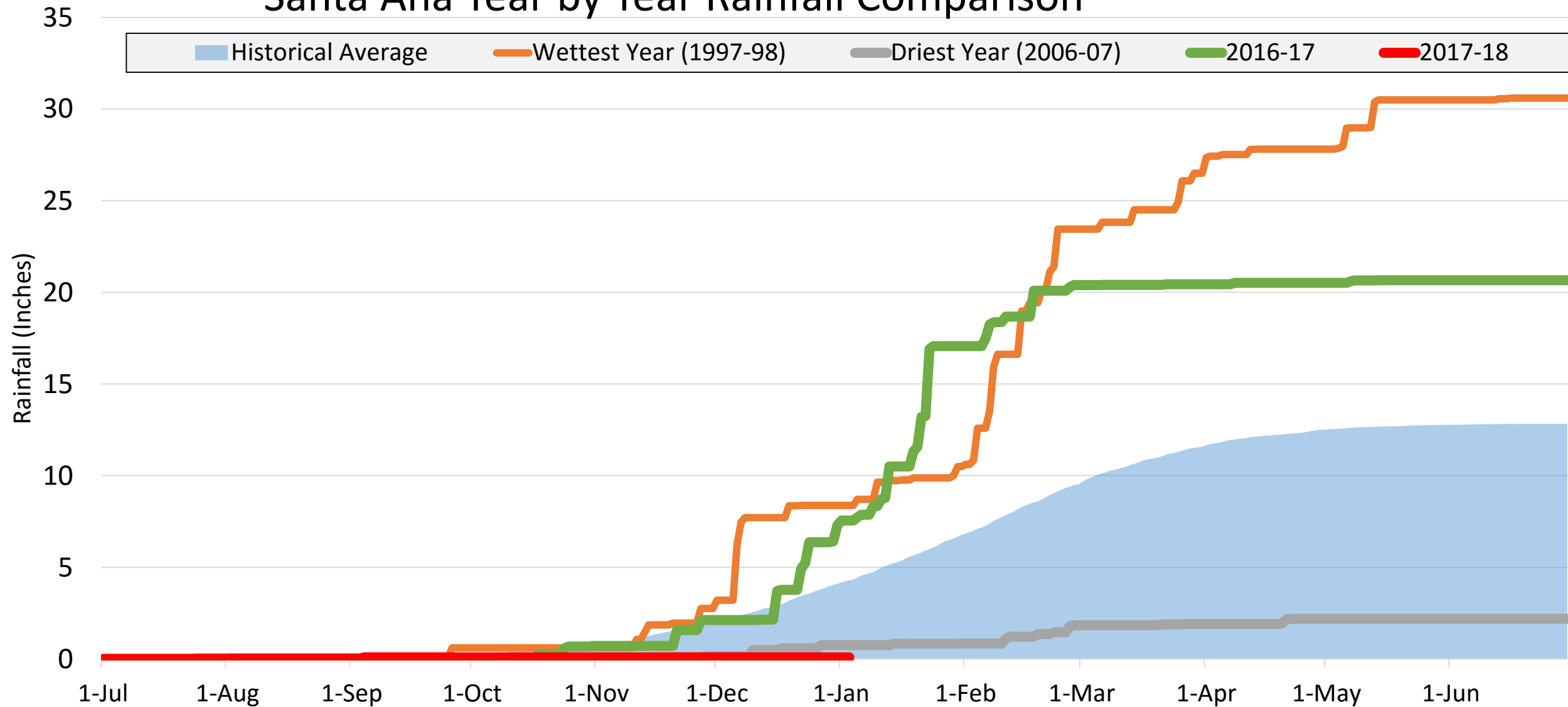
Orange County Precipitation



Santa Ana Rainfall



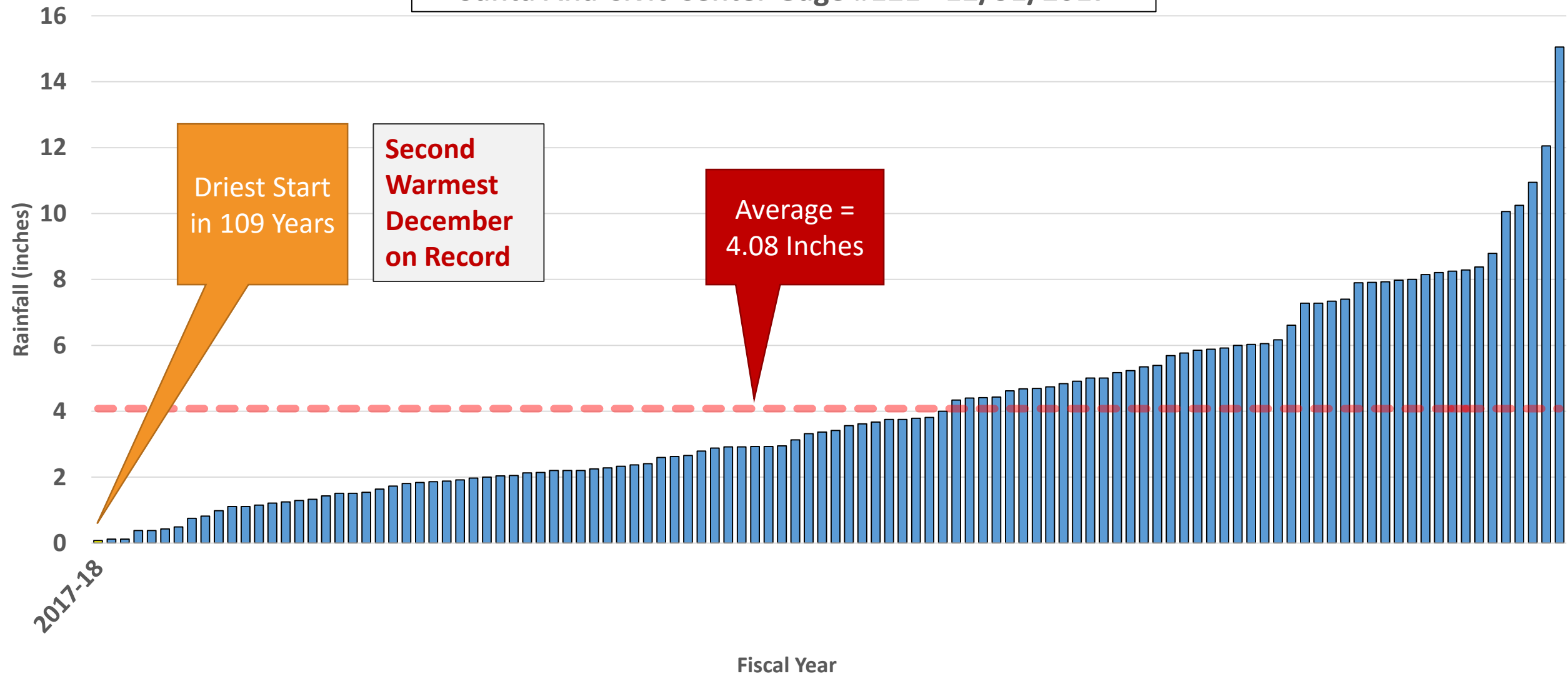
Santa Ana Year by Year Rainfall Comparison



How Dry is it????



FY to Date Rainfall in Orange County Vs Previous FY's
Santa Ana Civic Center Gage #121 *12/31/2017



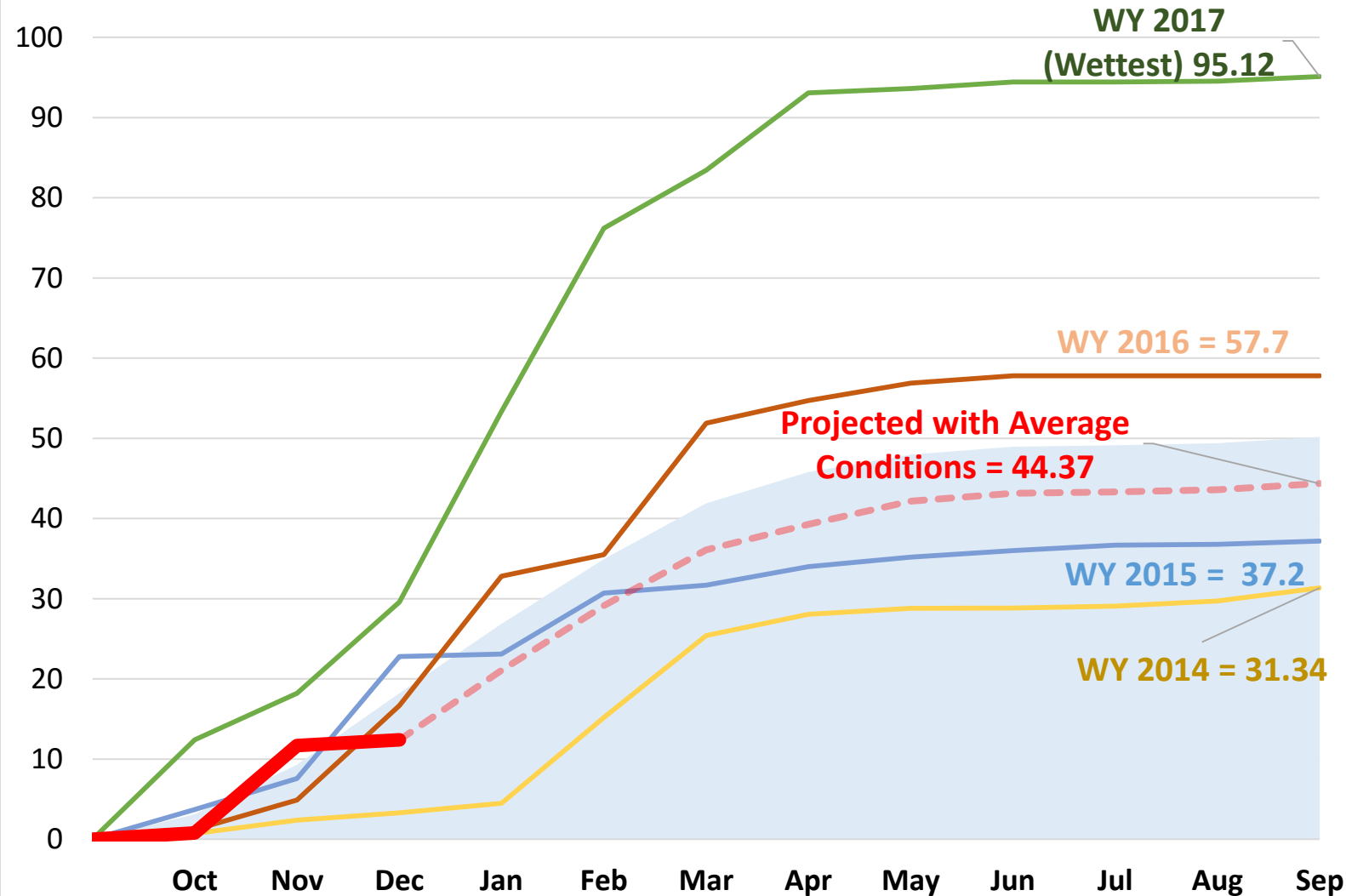
Regional Weather and Water Supply Conditions



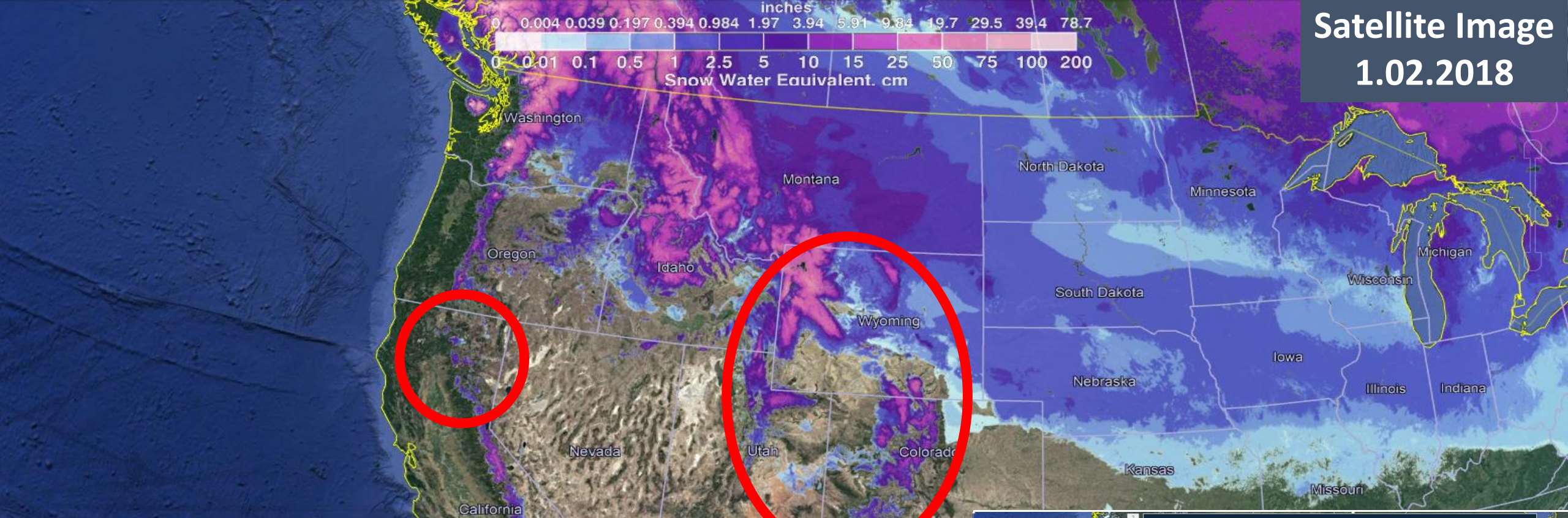
Northern California Accumulated Precipitation



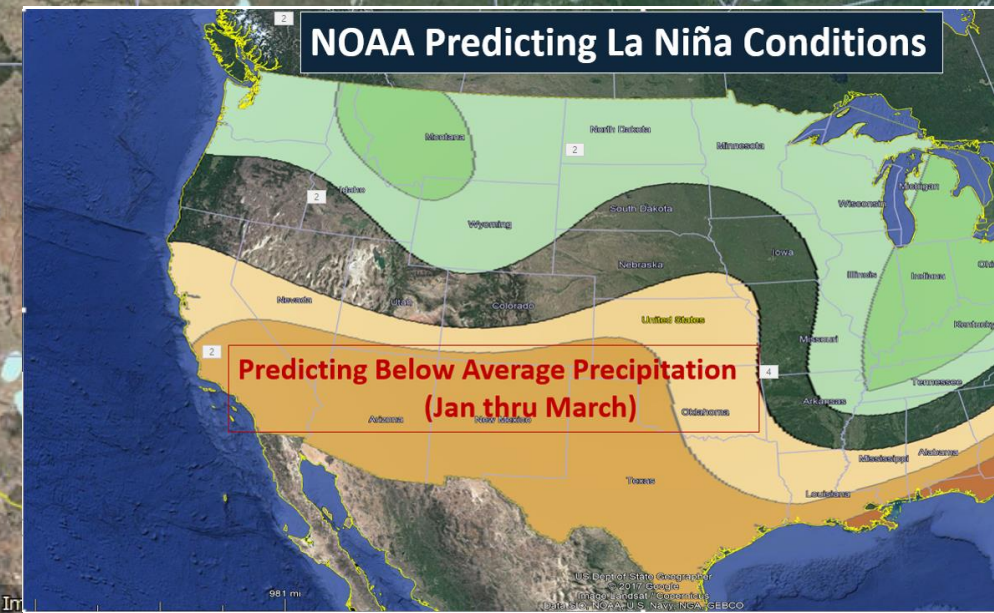
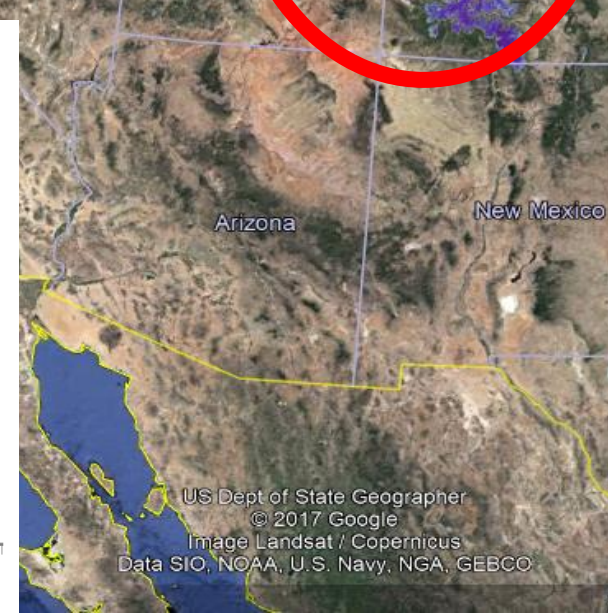
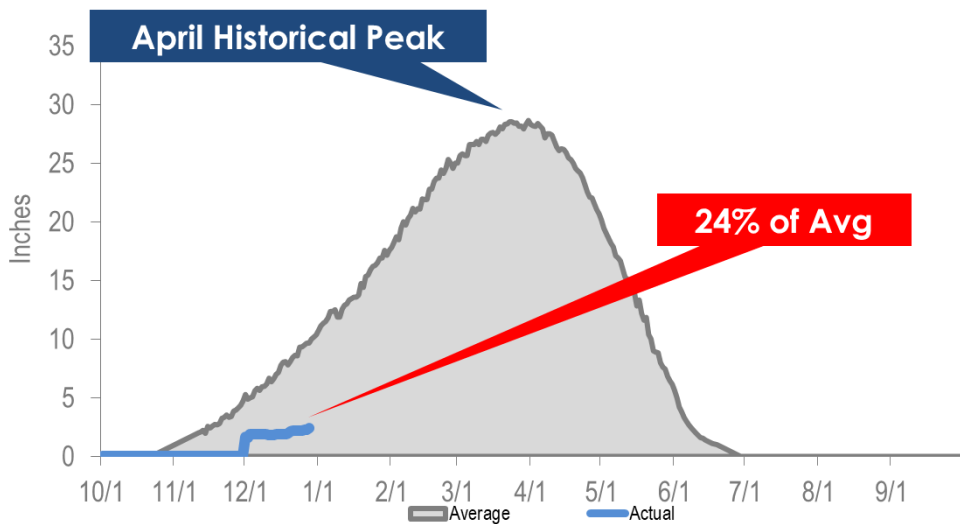
8 Station Index all Time Month by Month Cumulative
Totals



Satellite Image
1.02.2018



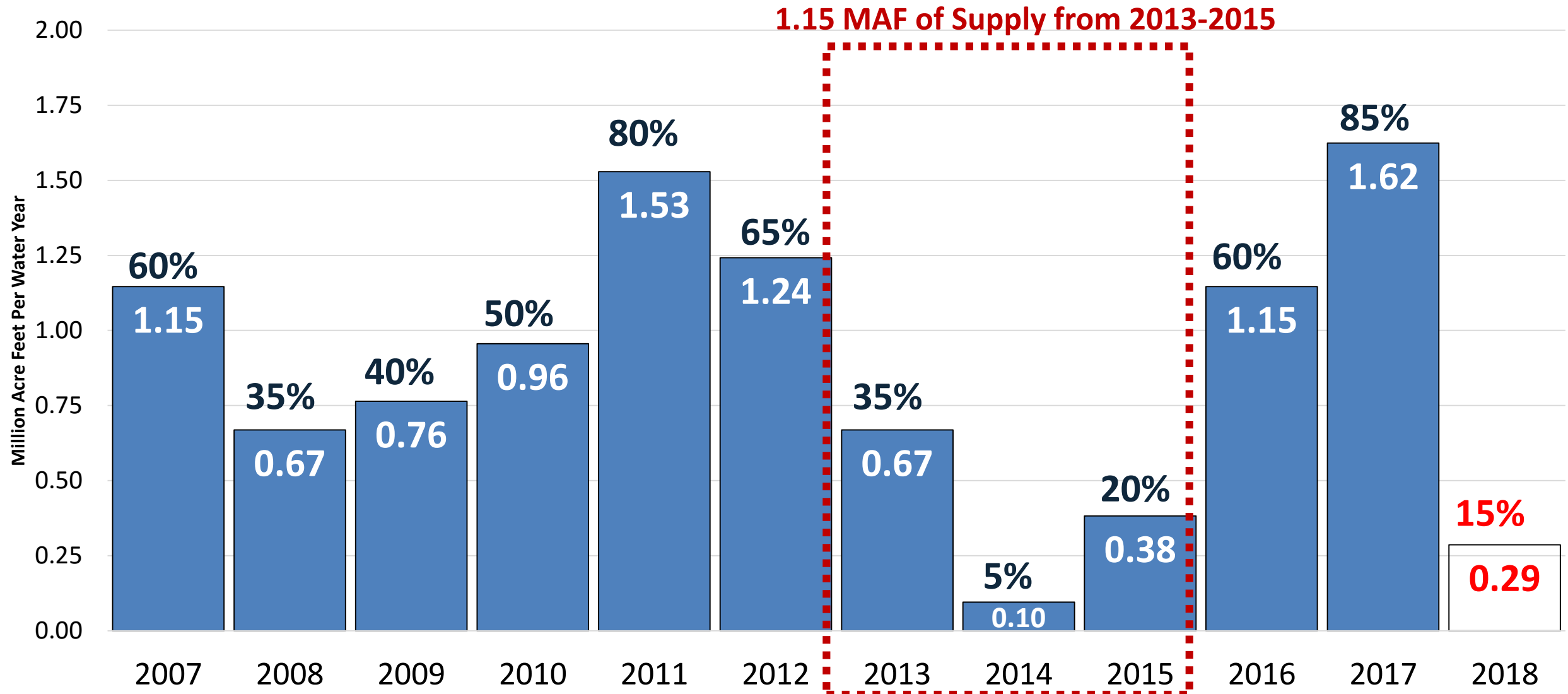
Northern Sierra Snowpack Water Equivalent



2018 SWP “Table A” Allocation



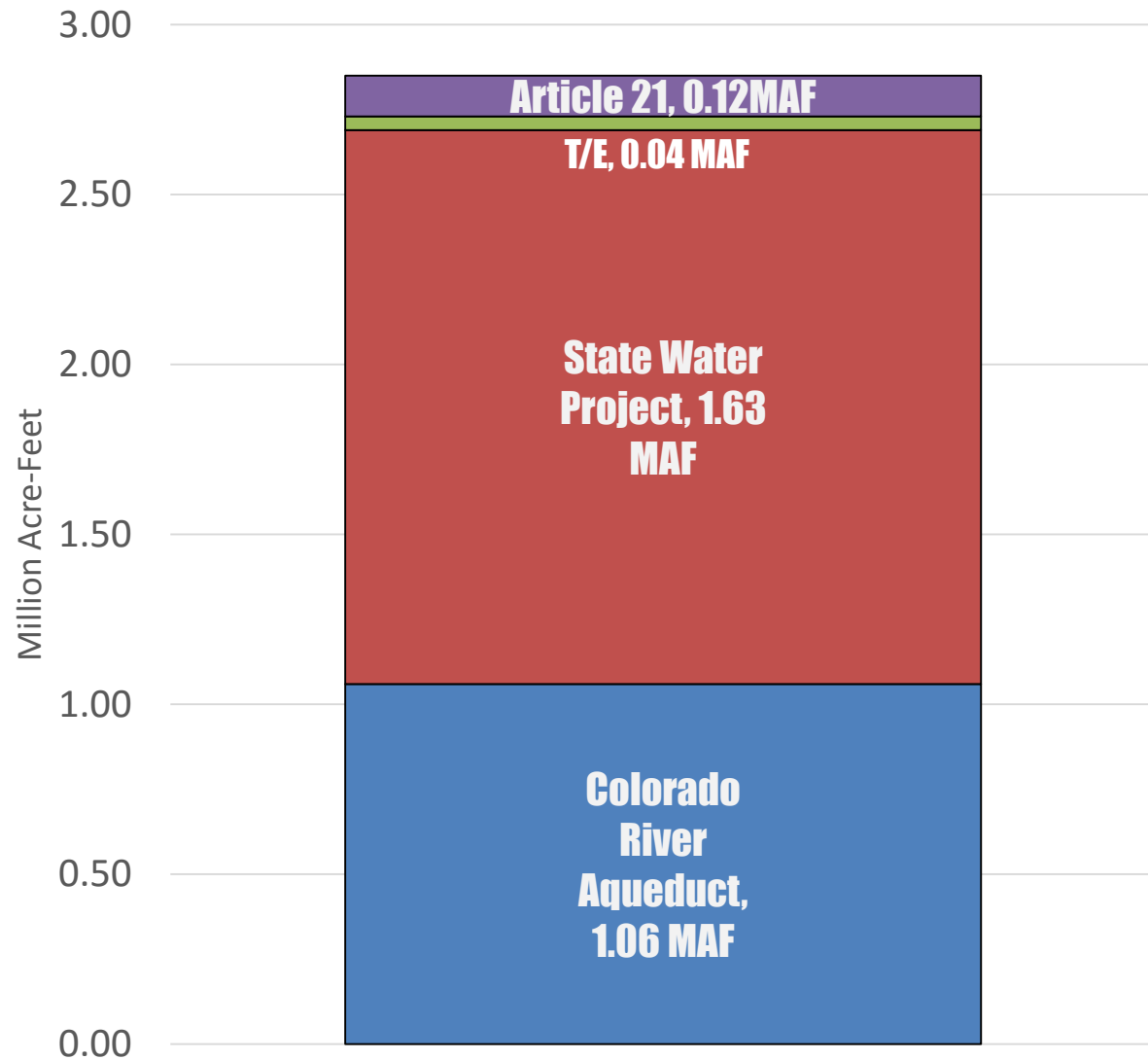
MWD Table A Supply (MAF per Water Year)



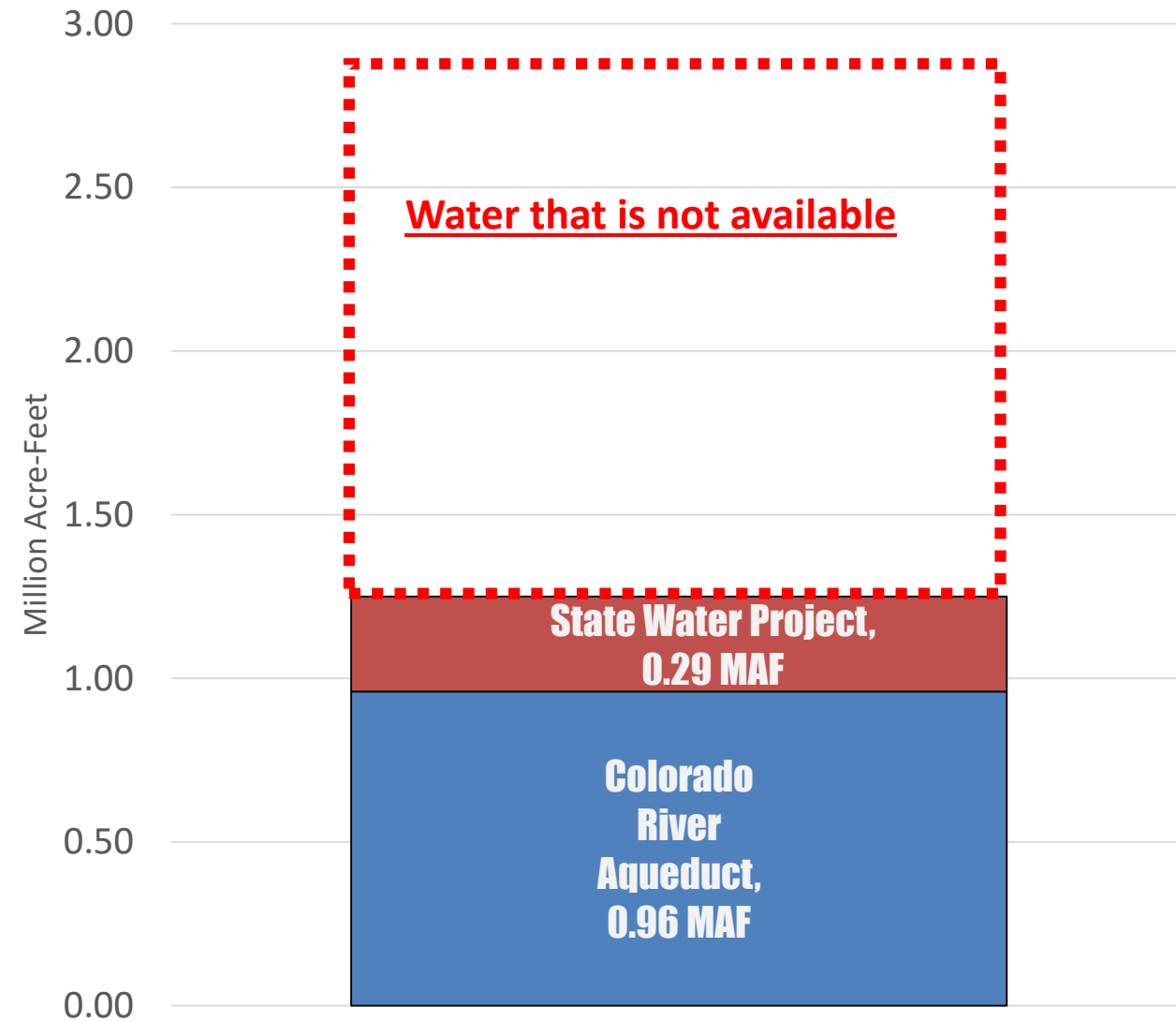
MWD Water Supply 2017 VS 2018



2017 MWD Water Supply (2.84 MAF)



2018 Estimated MWD Water Supply (1.3 MAF)



Questions

